

ABSTRACT

**ELECTRONIC DEVICE WITH DISPLAY PANEL AND
USER INPUT FUNCTION**

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An electronic device has a display panel (10), for example an active matrix liquid crystal display device, and includes touch input means which are operable by a user to perform input functions and which comprise touch elements (15, 18) in the form of button, pads or the like, spaced from the display panel and carried on a housing or frame (20) containing the display panel, and a sensing circuit (35) connected to the touch elements which is carried on a substrate (30) of the display panel together with a drive circuit (33, 34) of the display panel. Provision of the sensing circuit on the display panel substrate leads to compactness and reduced manufacturing costs while the separation of the touch elements from the display panel offers considerable flexibility in, for example, the arrangement of the touch elements and without risk of the display panel being contaminated or damaged.

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Figure 1

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